PTO/SB/05 (05-03)
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	Attorney Docket No. NVR-404						
UTILITY	First In	nventor	Robin A. R	Robinson	binson		
PATENT APPLICATION	1 1	FUNC	TIONAL INF	ILIFNZA	VIRUS-LIKE	PTG	
TRANSMITTAL	Title		ICLES (VLP		VIII CO LII L	.}	
(Only for new nonprovisional applications under 37 CFR 1.53(b))					~~~	_ N	
	Expres	ss Mail La		/ 3553840		_2	
APPLICATION ELEMENTS	- 1		C	AS Patent Ap	pplication er for Patents	47	
See MPEP chapter 600 concerning utility patent application con	stante	ADDR	(ESS 111)	P.O. Box 145		16447	
	Merits.		Α	lexandria, V	/A 22313-1450		
1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing)		7.	CD-ROM or CD- Computer Progr		te, large table or ix)		
2. X Applicant claims small entity status. See 37 CFR 1.27.				mino Acid Sed	quence Submission	- [
See 37 CFR 1.27. 3. X Specification [Total Pages 32]	<u>, </u>	· · ·	X Computer Rea		(CRE)	ı	
(preferred arrangement set forth below)	<u>. </u>		Specification Sequ			.]	
Descriptive title of the invention Cross Reference to Related Applications		U		DM or CD-R (,		
Statement Regarding Fed sponsored R & D Reference to sequence listing, a table,		٦٢	ㅡ └─	•		"	
or a computer program listing, a table, Background of the Invention	,	c. [)			I ICATIONS PARTS	—	
- Brief Summary of the Invention	}	9.			LICATIONS PARTS heet & document(s))	\dashv	
Brief Description of the Drawings (if filed) Detailed Description Chief	1	, -	37 CFR 3.73(b)		Power of	1	
- Claim(s) - Abstract of the Disclosure		10.	(when there is a		Attorney	1	
4. x Drawing(s) (35 U.S.C. 113) Figures 1 – 12 and Tables 1 and 2 [Total Sheets 1	14]	11.	English Translat	tion Documer	nt (if applicable)	1	
5. Oath or Declaration [Total Sheets		12.	Information Disc		Copies of IDS	-	
a. Newly executed (original or copy)	<u> </u>	13.	Statement (IDS) Preliminary Ame		LJ Citations	1	
Constitution (37 CER 4 63(4))	1		Botum Bossint Bostoped (MBER 503)				
b. Copy from a prior application (37 CFR 1.03(d)) (for continuation/divisional with Box 18 completed)	1		(Should be specifically itemized)				
i. DELETION OF INVENTOR(S) Signed statement attached deleting	1	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)					
inventor(s) named in the prior application,	.]	16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.					
see 37 CFR 1.63(d)(2) and 1.33(b).	J	17. Other:					
6. X Application Data Sheet. See 37 CFR 1.76	1	,''' <u> </u>	Journe.				
Application Data Sneet. See 37 CFK 1.76 18. If a CONTINUING APPLICATION, check appropriate box, a		the requi	' '' !-fa-mation h	-t and in ti	· Contractions of the energies		
following the title, or in an Application Data Sheet under 37 CFR		y trie requi	SITE INIUI manon S	elow and	he II/St semence or the apcompa	311011	
Continuation Divisional Continuation-	-in-part (C	기P) of p	rior application No	o.:			
Prior application information: Examiner			Art Un	nit:		_	
For CONTINUATION or DIVISIONAL APPS only: The entire dunder Box 5b, is considered a part of the disclosure of the acco						_	
under Box 5b, is considered a part of the disclosure of the acco reference. The incorporation <u>can only</u> be relied upon when a po							
19. COR	RESPO	NDENCE	ADDRESS				
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X Customer Number or Bar Code Label	,	JUSSS		or X	Correspondence address belo	w	
Name LAHIVE & COCKFIELD, LLP							
Ralph A. Loren							
Address 28 State Street							
Doctor Ste		840		17:- Codo	100400		
City Boston State Country US Tele		MA (617) 2	227-7400	Zip Code Fax	02109		
	lephone	` 			101171111111111111111111111111111111111	~	
Name (Print/Type) Ralph A. Lgren Registration No. (Attorney/Agent) 29,325					29,325	_	
Signature Date				Date .	July 11, 2003		
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I hereby certify that this correspondence is being deposite in an envelope addressed to: MS Patent Application, Cor							
date shown below.	1//				······································		
Dated: July 11, 2003 Signature: (Ralph A. Loren)							

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Under the Paperwork Reduction Act of 1995, no persons are requi						plete if Known			
FEE TRANSMITTAL		Application Number			Not Yet Assigned				
for FY 2003		Filing Date				Concurrently Herewith			
Effective 01/01/2003, Patent fees are subject to annual revision.		First Named Inventor			Robin A. Robinson				
	[Exami	Examiner Name			Not Yet Assigned			
X Applicant claims small entity status. See 37 CFR 1.27	Art Unit					N/A			
TOTAL AMOUNT OF PAYMENT (\$) 576.00	Attorney Docket No.).	NVR-404				
METHOD OF PAYMENT (check all that apply)	FEE CALCU				CALCUL	ATION (continued)			
Check Credit Money Order Other None	3. ADDITIONAL FEES					1			
Deposit	Large	Entity	Sma	II Entity	-				
Account Number	Fee Code	Fee (\$)	Fee Code			Fee Desc	ription	Fee Paid	
Deposit Account Lahive & Cockfield, LLP	1051	130	2051	65	Surcharge -	 late filing fe 	e or oath		
Name The Director is hereby authorized to: (check all that apply)	1052	50	2052	2 25	Surcharge sheet.	 late provision 	onal filing fee or cover		
X Charge fee(s) indicated below X Credit any overpayments	1053	130	1053	3 130	Non-Englis	h specificatio	n		
X Charge any additional fee(s) during the pendency of this application	1812	2,520	1812	2,520	•	•	parte reexamination		
Charge fee(s) indicated below, except for the filling fee	1804	920*	1804		Requesting publication of SIR prior to Examiner action				
to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action				
FEE CALCULATION	1251	110	2251			for reply within	n first month		
1. BASIC FILING FEE	1252	410	2252				second month	{	
Large Entity Small Entity Fee Fee Fee Fee Fee Pescription Fee Paid	1253	930	2253			for reply within			
Code (\$) Code (\$)	1254 1255	1,450	2254				n fourth month		
1001 750 2001 375 Utility filing fee 375.00 1002 330 2002 165 Design filing fee	1401	1,970	2401		Notice of A	for reply within ppeal	1 11(1) 11(0)(11)		
1003 520 2003 260 Plant filing fee	1402	320	2402			ef in support o	f an appeal		
1004 750 2004 375 Reissue filing fee	1403	280	2403	3 140	Request for	r oral hearing			
1005 160 2005 80 Provisional filing fee	1451	1,510	1451 2452			-	lic use proceeding		
SUBTOTAL (1) (\$) 375.00	1452 1453	110	2452			revive – unave revive - uninte			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,300	2501			fee (or reiss			
Extra Fee from Claims below Fee Paid	1502	470	2502	2 235	Design issu	ue fee			
Total Claims 33 -20** = 13 x 9.00 = 117.00	1503	630	2503	3 315	Plant issue	fee			
Independent 5 -3** = 2 x 42.00 = 84.00	1460	130	1460	130	Petitions to	the Commiss	sioner		
Multiple Dependent =	1807	50	1807	7 50	Processing	fee under 37	CFR 1.17(q)		
Large Entity Small Entity	1806	180	1806	180			on Disclosure Stmt		
Fee Fee Fee Code (\$) Fee Description	8021	40	8021	1 40		each patent a mes number o	ssignment per of properties)		
1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	Filing a sub (37 CFR 1.		final rejection		
1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	For each a	dditional inve			
1204 84 2204 42 ** Reissue independent claims	1801	750	2801	375			xamination (RCE)		
over original patent 1205 18 2205 9 ** Reissue claims in excess of 20	1802	900	1802	900		r expedited ex application	kamination		
and over original patent	Other fee (specify)								
SUBTOTAL (2) (\$) 201.00 **or number previously paid, if greater; For Reissues, see above	*Redu	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0.00						0.00	
SUBMITTED BY Complete (if applicable)					(if applicable)				
Name (Print/Type) Ralph A. Loren	Registration No. 20 325 Telephone (617) 227								
Signature M/ L	(Attorney/Agent) 25,323 Policy (011) 221-1400								
							<u> </u>		

		Postal Service as Express Mail, Airbill No. EV 355384039 US atents, P.O. Box 1450, Alexandria, VA 22313-1450, on the
date shown below.	11	
Dated: July 11, 2003	Signature:	(Ralph A. Loren)